

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

March 3, 2010

Mr. Terry Grayson
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

Pyong and Gyeong Jung
4707 First Street
Livermore, CA 94551-9293

(Sent via E-mail to: Terry.L.Grayson@contractor.conocophillips.com)

Subject: Fuel Leak Case No. RO0002970 and Geotracker Global ID T0619756184, Unocal #2611129/BP#11128, 4707 First Street, Livermore, CA – Case Closure

Dear Mr. Grayson and Pyong and Gyeong Jung:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total Petroleum Hydrocarbons as diesel remain in soil at concentrations up to 80 ppm.
- Total Petroleum Hydrocarbons as diesel remain in groundwater at concentrations up to 39 ppb.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to commercial land use only.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Cheryl Dizon, QIC 80201 (w/enc)
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551
(Sent via E-mail to: cdizon@zone7water.com)

Closure Unit (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Danielle Stefani (w/enc)
Livermore-Pleasanton Fire Department
3560 Nevada Street,
Pleasanton, CA 94566
(Sent via E-mail to: dstefani@lpfire.org)

City of Livermore Planning Department (w/enc),
1052 South Livermore Avenue,
Livermore, CA 94550

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (w/o enc)
Geotracker (w/enc)
File (w/orig enc)



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
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REMEDIAL ACTION COMPLETION CERTIFICATION

March 3, 2010

Mr. Terry Grayson
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

Pyong and Gyeong Jung
4707 First Street
Livermore, CA 94551-9293

Subject: Fuel Leak Case No. RO0002970 and Geotracker Global ID T0619756184, Unocal #2611129/BP#11128, 4707 First Street, Livermore, CA

Dear Mr. Grayson and Pyong and Gyeong Jung:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Arlu Levi', written over a horizontal line.

Arlu Levi
Director
Alameda County Environmental Health

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: November 17, 2009

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Mr. Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Unocal-#2611128/BP#11128		
Site Facility Address: 4707 First Street, Livermore, CA 94551		
RB Case No.: ---	Local Case No.: ---	LOP Case No.: RO0002970
URF Filing Dates: October 24, 2007	Geotracker ID: T0619756184	APN: 99-40-13-29
Responsible Parties	Addresses	Phone Numbers
Ted Moise ConocoPhillips Risk Management and Remediation	76 Broadway, Sacramento, CA 95818	(510) 245-5162
Pyong and Gyeong Jung	4707 First Street, Livermore, CA 94551	No phone number

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	1,000 gallon	Waste Oil	Removed	11/01/1995
Piping			Removed	9/23/1999

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: TPHd was detected in soil and groundwater samples collected during a 2007 Phase II Assessment. The petroleum hydrocarbons appear to be related to migration of free product from historic releases that occurred at a Chevron service station located east of the site at 4904 Southfront Lane. The historic releases at the Chevron service station were evaluated as part of fuel leak case RO000477, which was closed on December 21, 2007.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? No	Number: 0	Proper screened interval? ---
Highest GW Depth Below Ground Surface: 9 feet bgs	Lowest Depth: 15 feet bgs	Flow Direction: West to Southwest
Most Sensitive Current Use: Drinking water source.		

Summary of Production Wells in Vicinity: No water supply wells are within 2,000 feet of the site. The nearest well is a PG&E well located approximately 1,950 feet (upgradient) east of the site and is not a receptor due its upgradient location. Three domestic water supply wells are located approximately 2,000 to 2,100 feet west of the site. Total depth of the wells ranges from 192 to 335 feet. These water supply wells extract water from lower water-bearing zones than the zone of shallow groundwater contamination at the site and do not appear to be receptors for the site. Based on the distance from the site and review of subsurface information from the three wells, the potential for fuel hydrocarbons from the site to migrate to the lower water-bearing zones and impact the wells appears to be low.	
Are drinking water wells affected? No	Aquifer Name: Northwest boundary of Mocho I Subbasin of Livermore-Amador Groundwater Basin
Is surface water affected? No	Nearest SW Name: A drainage culvert leading to Arroyo Las Positas is approximately 25 feet west of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Livermore-Pleasanton Fire Department.

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1 tank----	The 1,000-gallon dual-wall fiberglass waste oil UST was removed from the site and disposed at Erickson, Inc. in Reichmond,.CA.	11/1/1995
Piping	----	----	----
Free Product	296 gallons	Not reported	02/1985 to 04/1986
Soil	20 cubic yards	Transported to Vasco Road Landfill for disposal	1/8/1996
Groundwater	1,070,999 gallons	Groundwater was treated by a carbon filter and air stripping unit and then discharged to a storm drain.	02/1985 to 04/1986 and 03/1990 to 01/1991

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1-6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	<1	<1	<50	<50
TPH (Diesel)	360	80	7,300(1)	39(1)
TPH (Motor Oil)	Not analyzed	Not analyzed	770	770
Benzene	0.014	0.0015	<5	<5
Toluene	0.009	0.009	<5	<5
Ethylbenzene	0.11	<0.0050	0.8	<5
Xylenes	0.80	0.006	4	<5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	8(2)	8(2)	Not analyzed	Not analyzed
MTBE	<0.005(3)	<0.005(3)	<0.5(3)	<0.5(3)
Other (8240/8270)	Not detected at various detection limits	Not detected at various detection limits	Not analyzed	Not analyzed

Footnotes:

- (1) TPHd before cleanup result from grab groundwater sample B-6 collected on 08/22/2007 and after cleanup results are from grab groundwater samples collected on 2/24/2009.
- (2) Lead = 8 ppm; Cd < 1 ppm; Cr = 43 ppm; Ni = 8 ppm; and Zn = 48 ppm
- (3) No fuel oxygenates detected in soil or groundwater.

Site History and Description of Corrective Actions:

The site is currently an operating gasoline service station located at 4707 First Street in Livermore, California. Surrounding land use is primarily commercial with active service stations located northeast and northwest of the site. The fuel system at the site includes three gasoline USTs and two dispenser islands. This case was opened in response to the detection of petroleum hydrocarbons in soil and groundwater samples collected during a site assessment for due diligence in August 2007. Six soil borings (B-1 through B-6) were advanced at the site between August 21 and August 27, 2007 as part of a site assessment for due diligence. TPHd was detected in one of five soil samples collected at a concentration of 80 ppm; TPHg and benzene were not detected in any of the soil samples. TPHg was not detected in any of the five grab groundwater samples collected but TPHd was detected in four of the five grab groundwater samples at concentrations ranging from 1,100 to 7,300 ppb. BTEX were not detected in any of the grab groundwater samples. Based on a review of the site history, it appears that the fuel hydrocarbons detected during the August 2007 investigation most likely represent residual contamination from earlier releases at a Chevron service station located directly east of the site at 4904 Southfront Lane.

A leaking UST was discovered at the Chevron service station (Chevron #9-1924; RO0000477) located at 4904 Southfront Lane in December 1984. After detection of the leak in December 1984, the leaking 10,000-gallon UST was decommissioned and then removed in March 1985. Two additional USTs, one 5,000-gallon and one 10,000-gallon UST were also removed in March 1985 and replaced by a new UST complex in a different location within the Chevron service station at 4904 Southfront Lane. In response to the leak at the Chevron station, a total of 18 soil borings were advanced as part of on-site and off-site investigations. A total of 14 of the borings were converted to monitoring wells. In addition to wells located at the Chevron station, several wells were also installed at 4707 First Street, which is the site considered in this fuel leak case. A free product plume was observed extending from the former tank pit at the Chevron station at 4904 Southfront Lane off-site to the west. A drainage culvert extending from the Chevron station to the 4707 First Street site was suspected to be a preferential pathway for free product.

Therefore, Chevron installed one 12-inch recovery well adjacent to the drainage culvert on the 4707 First Street site. A double pump recovery system and air stripping unit was used to recover free product and extract and treat groundwater. The free product recovery and groundwater extraction system was operated by Chevron from February 1985 to April 1986. The groundwater extraction system also operated during the period from March 1990 to January 1991. A total of 1,070,999 gallons of groundwater was treated and 296 gallons of separate phase hydrocarbons were removed. The extraction and treatment system was removed in July 1993. Following additional site investigation and monitoring, the fuel leak case for the Chevron station at 4904 Southfront Lane (RO0000477) was closed on June 6, 2007.

Site assessment activities consisting of advancing three soil borings (THP-1 through TPH-3) near the pump islands, fuel USTs, and waste oil UST and inspecting the fuel dispensers for indications of leakage were conducted at 4707 First Street on October 21, 1994. Stained pea gravel backfill was observed below the southwest dispenser. TPHg and TPHd were detected in soil samples collected below the dispensers at concentrations up to 79 ppm and 360 ppm, respectively. Grab groundwater samples from the three soil borings contained minor concentrations of BTEX (0.8 ppb of ethylbenzene and 4 ppb of xylenes). TPHg, TPHd, TPHo, and BTEX were not detected in soil samples from the three borings.

In 1995, one 1,000-gallon waste oil UST was removed from the site. Soil samples were collected from the former waste oil UST and former hydraulic lift sump excavations. 1,1-dichlorobenzene and 1,2-dichlorobenzene were detected in soil at concentrations of 16 and 20 ppm, respectively. In a letter dated February 16, 1996, ACEH indicated that no further investigation or cleanup was required for the waste oil UST (RO0000560).

In a follow-up investigation to the six soil borings advanced in August 2007, seven soil borings (EB-1 through EB-7) were advanced on February 24 and 25, 2009. TPHg was not detected at reportable concentrations in any of the soil or groundwater samples collected. TPHd was detected in 18 of 25 soil samples collected at concentrations up to 5 ppm and was detected in 3 of the 6 groundwater samples collected at concentrations up to 39 ppb. Benzene was detected in 2 of 25 soil samples collected at concentrations up to 0.0015 ppm and was not detected at reportable concentrations in the 6 groundwater samples collected.

IV. CLOSURE

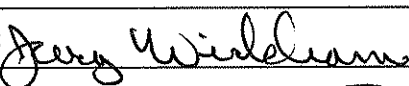
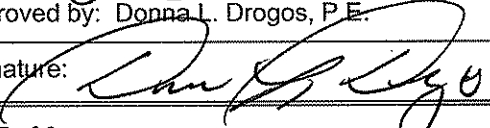
Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for the current commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.		
Excavation or construction activities in the areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.		
Should corrective action be reviewed if land use changes? Yes.		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: NA*	Number Decommissioned: NA*	Number Retained: NA*
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

* Seven monitoring wells and one recovery well were installed at the site as part of the site investigation and remediation for the Chevron station located east of the site at 4904 Southfront Lane. All monitoring wells and the recovery well were decommissioned at various times between November 2001 and December 2007 as part of the Chevron RO0000477 case at 4904 Southfront Lane.

V. ADDITIONAL COMMENTS, DATA, ETC.

<p>Considerations and/or Variances:</p> <p>No soil vapor sampling was conducted for the site. Based on the apparent absence of BTEX in soil samples, the minimal BTEX concentrations in groundwater samples, and the age of the historic release, soil vapor sampling does not appear to be necessary.</p> <p>Conclusion:</p> <p>Based upon the information available in our files to date, Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use. No further investigation or cleanup is necessary unless a change in land use to any residential or other conservative land use scenario occurs at this site. ACEH staff recommend case closure for this site.</p>

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 01/07/10
Approved by: Donna L. Drogos, P.E.	Title: Chief
Signature: 	Date: 01/07/10

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB: 1/7/10
Signature: <i>Cherie McCaulou</i>	Date: 3/2/10

VIII. MONITORING WELL DECOMMISSIONING

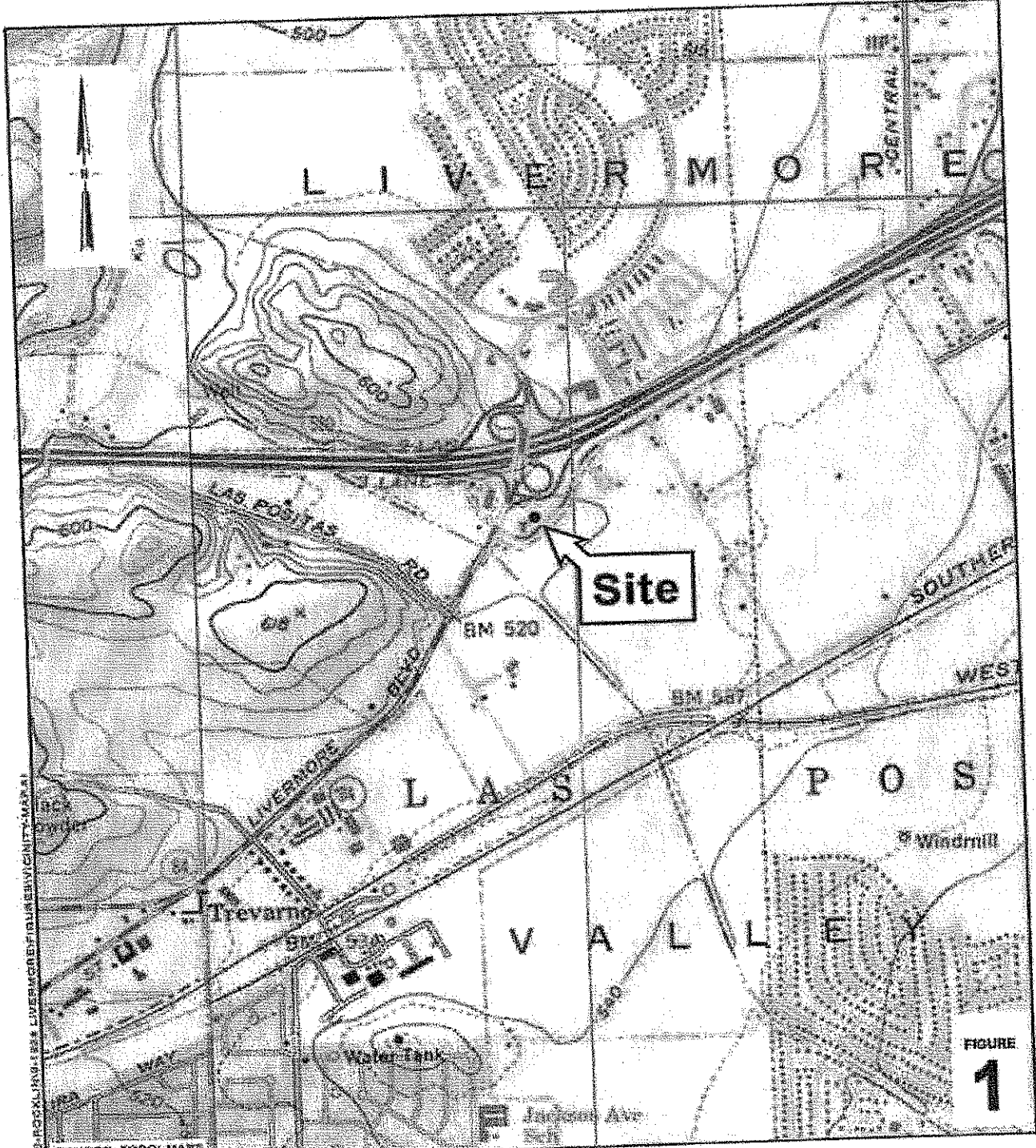
Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: NA*	Number Decommissioned: NA*	Number Retained: NA*
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>John W. Williams</i>	Date: 03/03/10	

* Seven monitoring wells and one recovery well were installed at the site as part of the site investigation and remediation for the Chevron station located east of the site at 4904 Southfront Lane. All monitoring wells and the recovery well were decommissioned at various times between November 2001 and December 2007 as part of the Chevron RO0000477 case at 4904 Southfront Lane.

Attachments:

1. Site Vicinity Map (1 pp)
2. Site Plans (4 pp)
3. Groundwater Elevation Contours (1 p)
4. Soil Analytical Data (5 pp)
5. Groundwater Analytical Data (3 pp)
6. Boring Logs (16 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



SOURCE: TOPOI MAPS

SOURCE: TOPOI MAPS

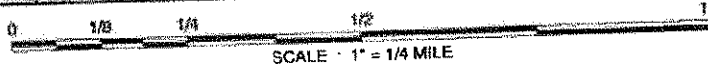


FIGURE
1

Chevron Service Station 9-1924
 4904 Southfront Road
 Livermore, California

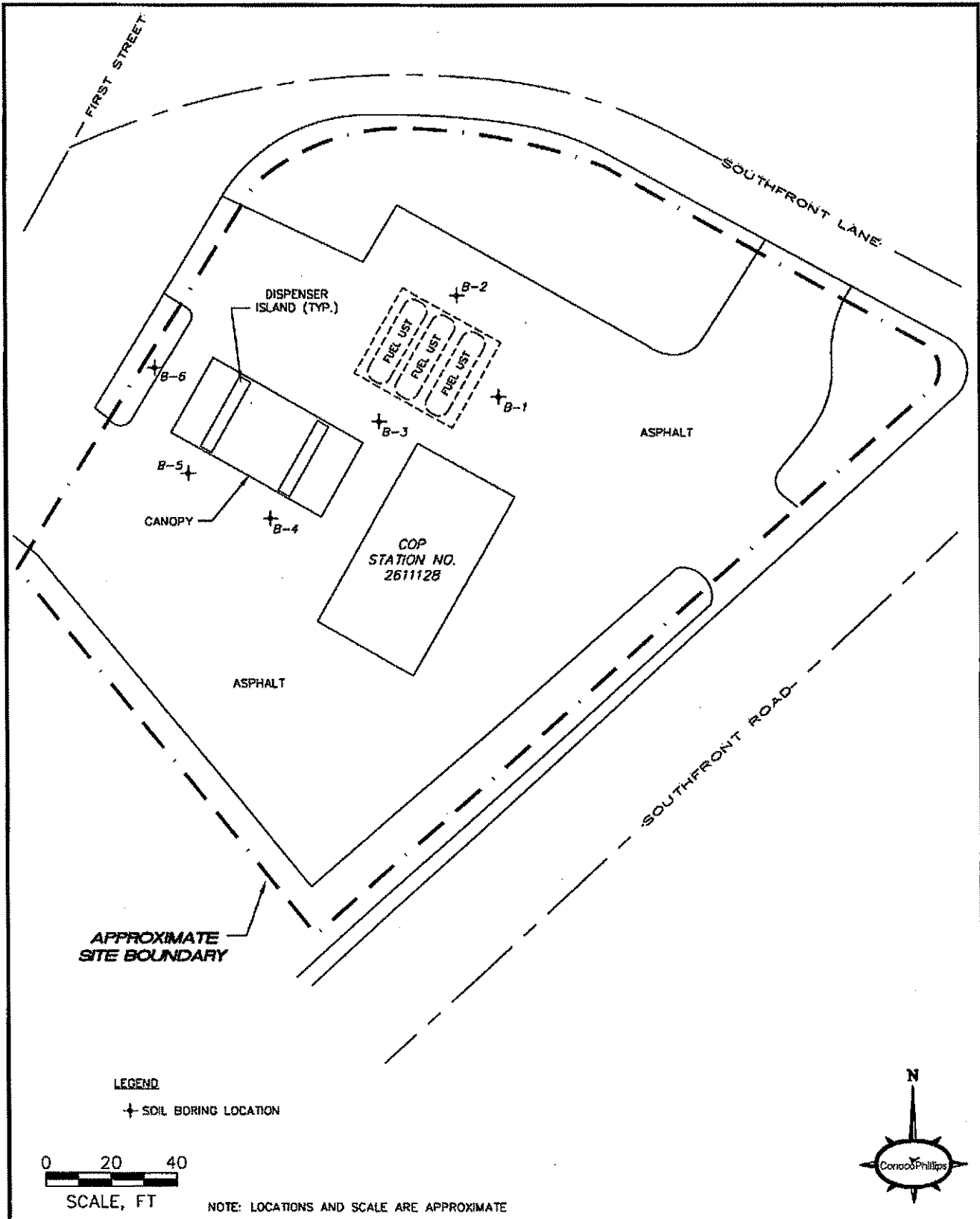


CAMBRIA

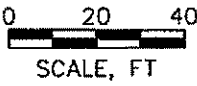
*Alameda County
 Environmental
 JUN 0 2 2011*

Vicinity Map

ATTACHMENT 1

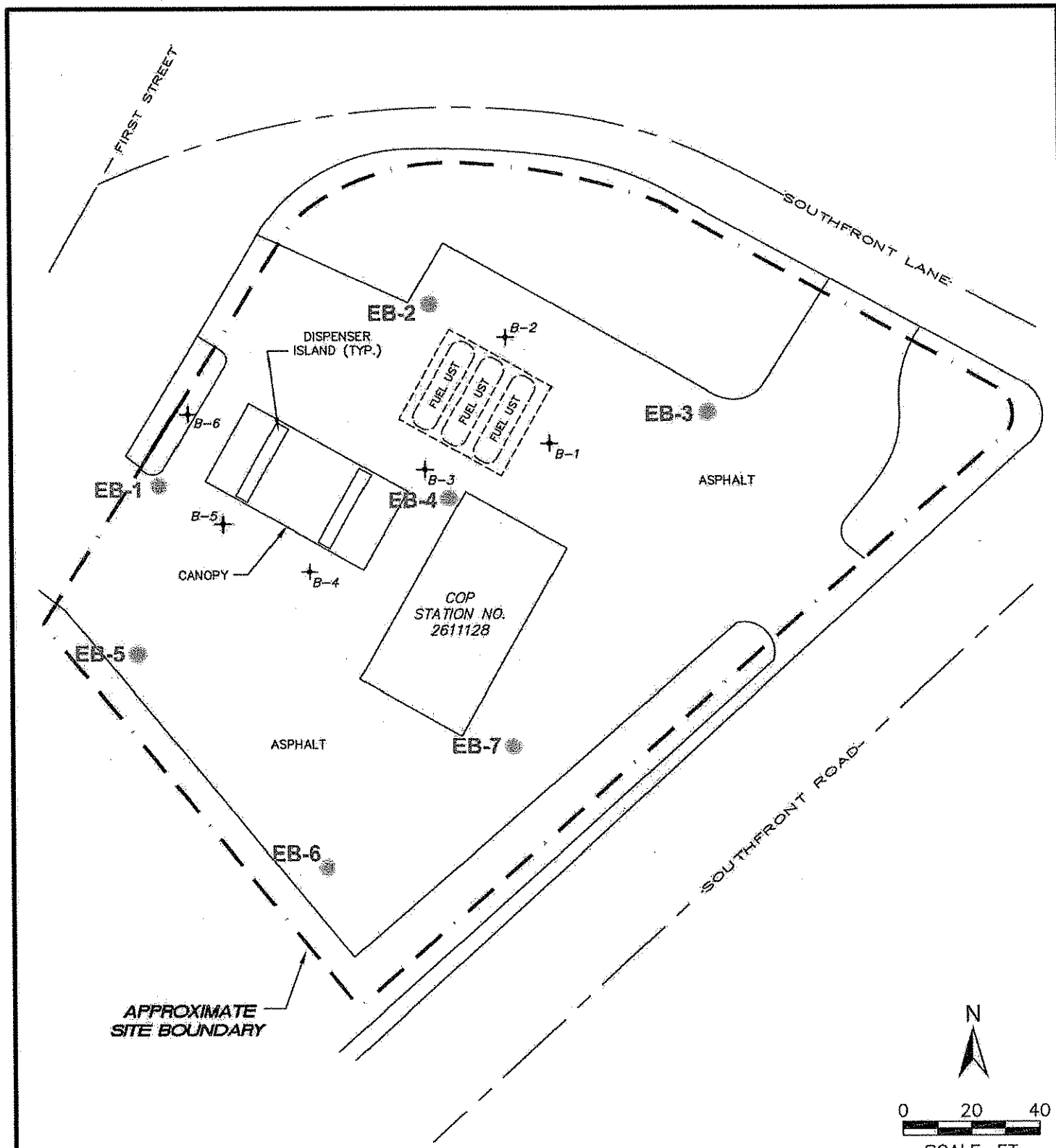


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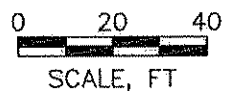


NOTE: LOCATIONS AND SCALE ARE APPROXIMATE

SITE PLAN CONOCOPHILLIPS SITE NO. 2611128 4707 FIRST STREET LIVERMORE, CALIFORNIA	PROJECT NUMBER: 34.75118.3166	DATE: 9/7/07	FIGURE
	APPROVED BY: MM	DRAWN BY: BK	1
 9185 S. Farmer Ave., Ste. #107 Tempe, Arizona 85284-2912 Ph: (480) 894-2056 *** Fax: (480) 894-2497			

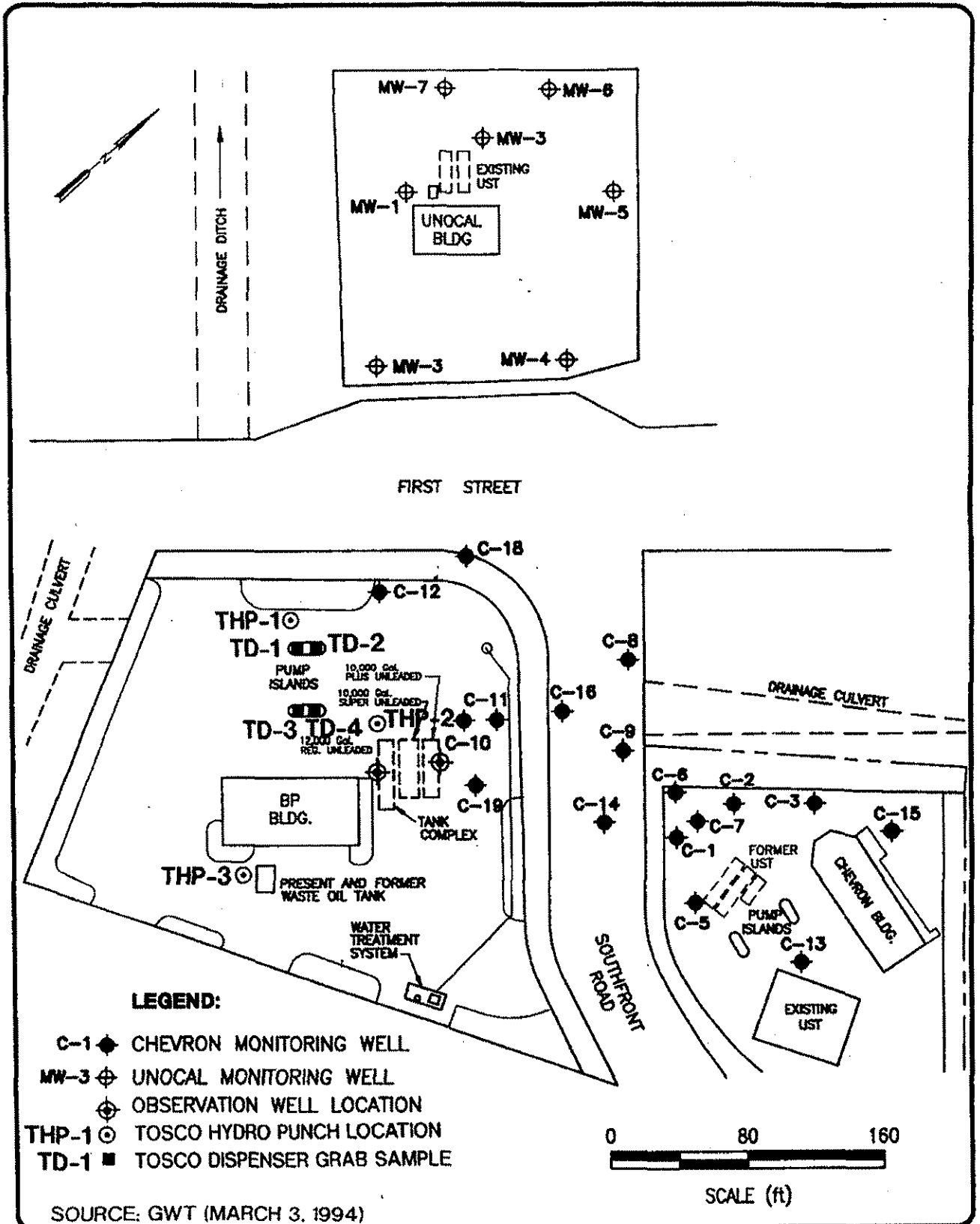


NOTE: LOCATIONS AND SCALE ARE APPROXIMATE



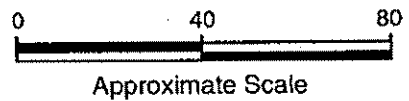
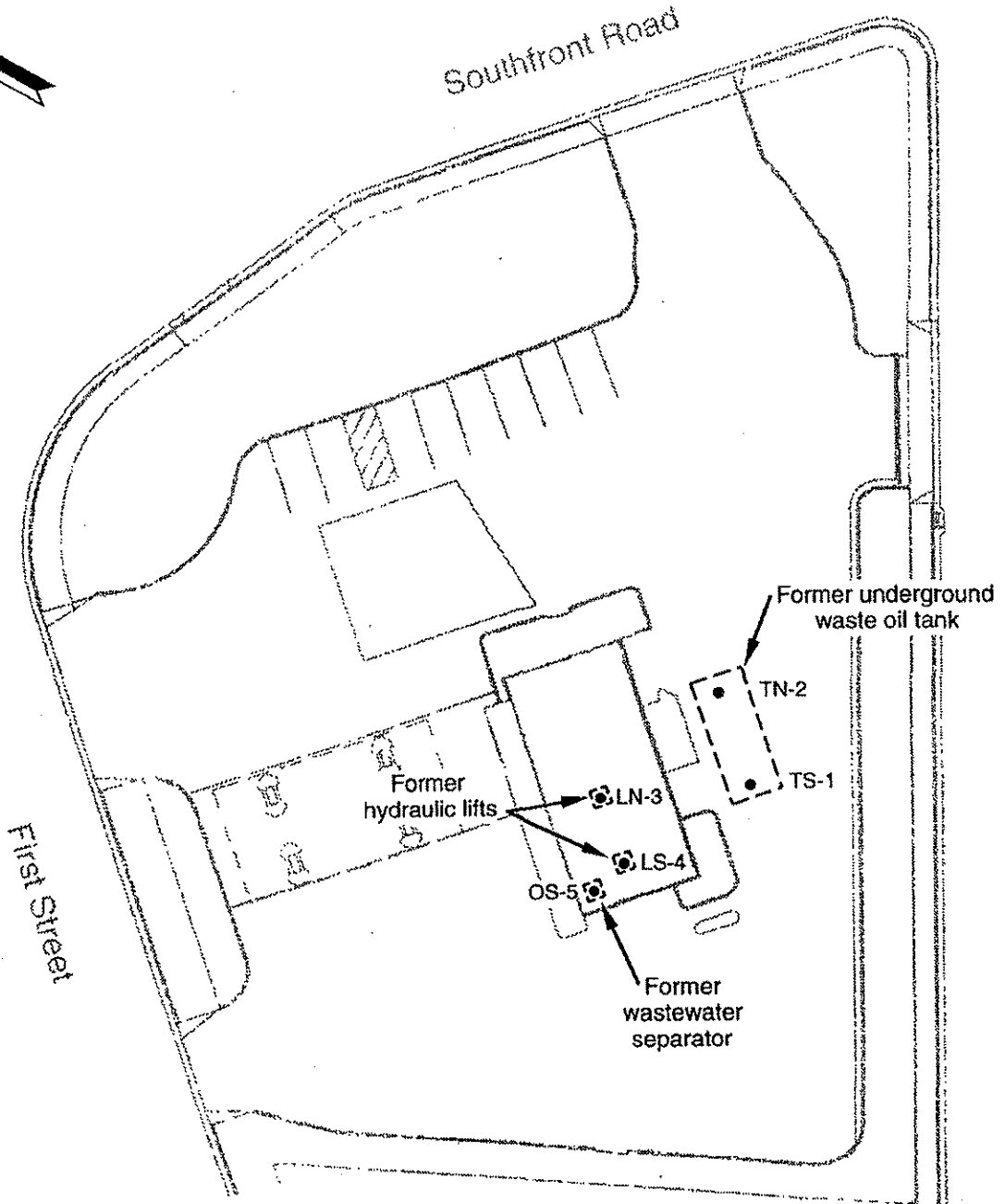
- LEGEND**
- B-1 + SOIL BORING (ATC - 2007) LOCATION AND DESIGNATION
 - EB-1 ● SOIL BORING LOCATION AND DESIGNATION

<p>FIGURE 1 SITE MAP SOIL BORING LOCATIONS AND DESIGNATIONS 4707 FIRST STREET LIVERMORE, CALIFORNIA</p>		
PROJECT NO. 2611128	DRAWN BY V.C.	
FILE NO. 1733	PREPARED BY V.C.	
REVISION NO. 1	REVIEWED BY K.T.	



DATE 12-08-94
 OWN. MLP
 REV. _____
 APPR. _____
 PROJECT NO.
 0952-041.03

Figure 1
 TOSCO #11128
 4707 FIRST STREET
 LIVERMORE, CALIFORNIA
SITE PLAN



LEGEND

- OS-5 • Approximate Location and Designation of Confirmation Soil Samples

FIGURE 1

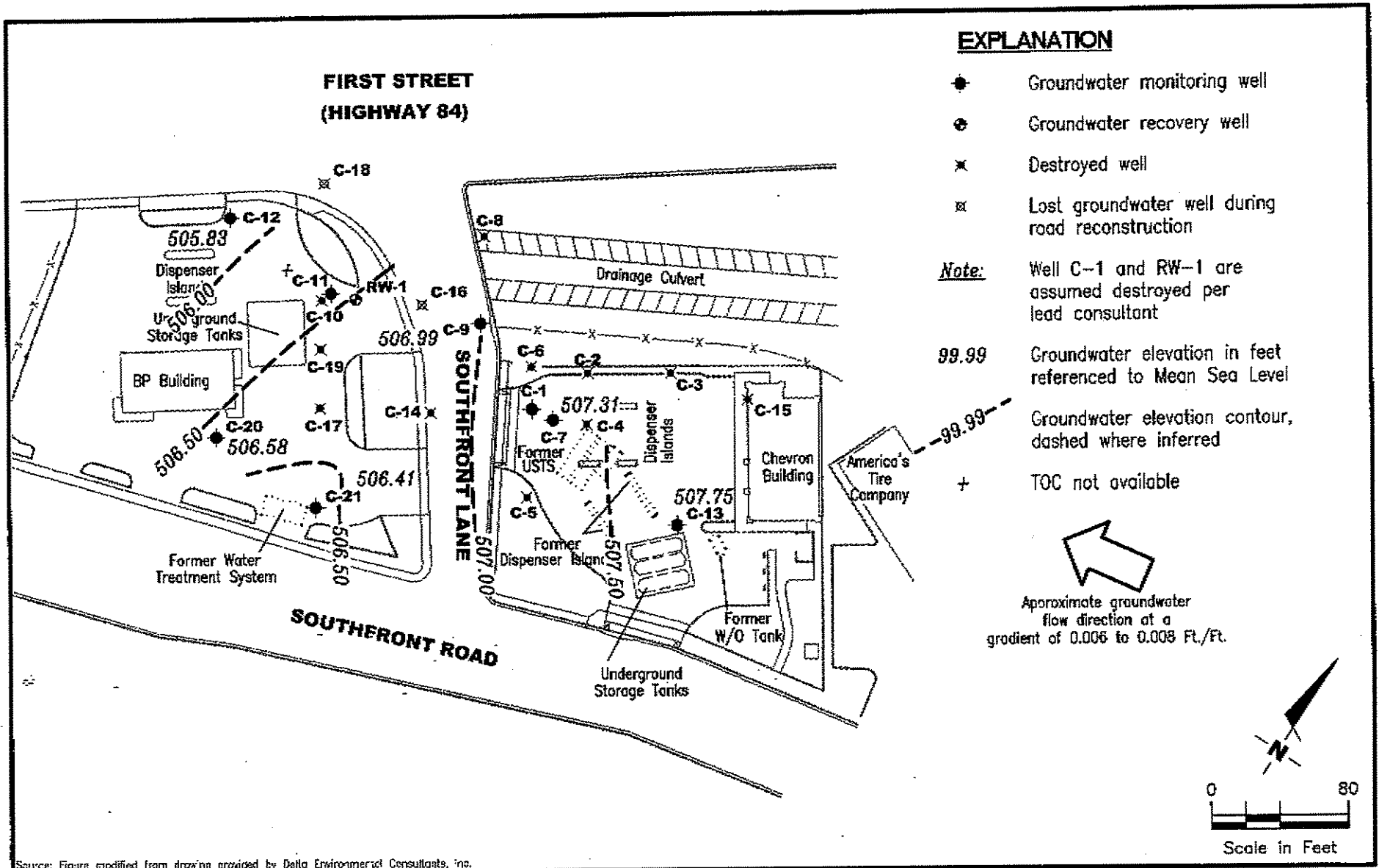
SITE PLAN

BP Service Station (Tosco Facility No. 11128)
4707 First Street
Livermore, California



TOSCO REFINING AND MARKETING CO.

INNOVATIVE TECHNICAL SOLUTIONS, INC.



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Chevron Service Station #9-1924
 4904 Southfront Road
 Livermore, California

FIGURE

1

PROJECT NUMBER
 386448

REVIEWED BY

DATE
 June 29, 2004

FILE NAME: P:\Environ\Chevron\9-1924\304-9-1924.DWG | Layout Tab: Pot2

ATTACHMENT 3

TABLE 1
SOIL SAMPLES - ANALYTICAL RESULTS
ConocoPhillips Site #2611128
4707 First Street
Livermore, California
Page 1 of 2

SOIL BORING ID - DEPTH		EB-1-5	EB-1-10	EB-1-15	EB-1-20	EB-2-5	EB-3-5	EB-3-10	EB-3-15	EB-3-20	EB-3-25	EB-4-5	EB-4-10
Constituent													
Volatile Organic Analysis - EPA Method 8260													
Benzene	mg/kg	0.0015	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.0050
Ethylbenzene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.0050
Methyl t-butyl ether (MTBE)	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.0050
Toluene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.0050
Total Xylenes	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Purgeable Aromatics and Total Petroleum Hydrocarbons - Luft													
Gasoline Range Organics (C4 - C12)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diesel Range Organics (C12 - C24)	mg/kg	<2	4.0	<2	<2	3.6	3.1	<2	<2	2.9	2.6	1.9	2.7
Diesel Range Organics (Silica Gel)	mg/kg	<2	3.0	<2	<2	<2	3.2	<2	<2	<2	<2	<2	<2

EXPLANATION:
 mg/kg ... milligrams per kilogram
 < ... less than

ATTACHMENT 4



TABLE 1
SOIL SAMPLES - ANALYTICAL RESULTS
 ConocoPhillips Site #2611128
 4707 First Street
 Livermore, California
 Page 2 of 2

SOIL BORING ID - DEPTH		EB-4-15'	EB-4-20'	EB-5-5'	EB-5-10'	EB-5-15'	EB-5-20'	EB-6-5'	EB-6-10'	EB-6-15'	EB-6-20'	EB-7-10'	EB-7-15'	EB-7-20'
Constituent														
Volatile Organic Analysis - EPA Method 8260														
Benzene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.005	0.0013	<0.0050	<0.0050
Ethylbenzene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.005	<0.005	<0.0050	<0.0050
Methyl t-butyl ether	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.005	<0.005	<0.0050	<0.0050
Toluene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.005	<0.005	<0.0050	<0.0050
Total Xylenes	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Purgeable Aromatics and Total Petroleum Hydrocarbons - Luft														
Gasoline Range Organics (C4 - C12)	mg/kg	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<2
Diesel Range Organics (C12 - C24)	mg/kg	3.7	5.0	2.2	3.4	2.1	1.8	2.0	2.3	<2	<2	3.4	2.1	2.7
Diesel Range Organics (Silica Gel)	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.8	2.2	<2

EXPLANATION:
 mg/kg ... milligrams per kilogram
 < ... less than



TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
 ConocoPhillips Site No. 2611128
 4707 First Street, Livermore, California

Sample ID	Sample Depth (feet bgs)	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other HVOC	Oxygenates	TPH-GRO	TPH-DRO	Lead
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			EPA 8260b						EPA 8015B Modified		EPA 6010B
B-1d30.0	30	08/21/07	<0.005	<0.005	<0.005	<0.005	All analytes ND.	All analytes ND.	<1.0	<12	6.20
B-2d31.0	31	08/23/07	<0.005	0.067	<0.005	<0.005	All remaining analytes ND.	All analytes ND.	<1.0	<12	5.43
B-3d20.0	20	08/27/07	<0.005	0.009	<0.005	0.006	methylene chloride (0.005)	All analytes ND.	<1.0	<12	4.99
B-4d21.0	21	08/22/07	<0.005	<0.005	<0.005	<0.005	All analytes ND.	All analytes ND.	<1.0	80	5.15
B-6d19.0	19	08/22/07	<0.005	<0.005	<0.005	<0.005	All analytes ND.	All analytes ND.	<1.0	<12	2.68

Notes:	bgs - Below ground surface. mg/kg - Milligrams per kilogram (equivalent to parts per million). HVOC - Halogenated volatile organic compounds. * - Only compounds detected at a concentration exceeding their respective laboratory method Limit of Quantitation (LOQ) are noted. TPH - Total petroleum hydrocarbons. TPH-GRO - Gasoline range organic hydrocarbons. TPH-DRO - Diesel range organic hydrocarbons. EPA - Environmental Protection Agency <0.005 - Analyte not detected above specific laboratory method LOQ. ND - Analyte not detected above specific laboratory method LOQ.
--------	---

Table A-1

Site Number 11128
4707 First Street, Livermore, California

Soil Sample Results of Analyses (ppm)

Sample Number	Depth (feet)	Date Collected	California DHS LUFT Method TPH-G	California DHS LUFT Method Hydrocarbon Scan			BTEX EPA Method 5030/8020			
			TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	
THP1-S-10-10.5***	10-10.5	10/21/94	nd	nd	nd	nd	nd	nd	nd	
THP1-S-13.5-14	13.5-14	10/21/94	nd	nd	nd	nd	nd	nd	nd	
THP2-S-3-3.5	3-3.5	10/21/94	nd	nd	nd	nd	nd	nd	nd	
THP2-S-6.5-7	6.5-7	10/21/94	nd	nd	nd	nd	nd	nd	nd	
THP3-S-10-10.5	10-10.5	10/21/94	nd	nd	nd	nd	nd	nd	nd	
THP3-S-13.5-14	13.5-14	10/21/94	nd	nd	nd	nd	nd	nd	nd	
TD1-0.5	0.5	10/21/94	0.4	140	nd	nd	0.006	nd	0.028	
TD2-0.5	0.5	10/21/94	35	360	nd	nd*	nd*	nd*	0.17	
TD3-0.5	0.5	10/21/94	79	200	nd	nd*	0.14	0.11	0.80	
TD4-0.5	0.5	10/21/94	47	290	nd	nd*	nd*	nd*	0.25	

Groundwater Sample Results of Analyses (ppb)

Sample Number	Depth to Water (feet)	Date Sampled	California DHS LUFT Method TPH-G	California DHS LUFT Method Hydrocarbon Scan			BTEX EPA Method 5030/8020			
			TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	
THP1-W	18	10/21/94	nd	nd	770	nd	nd	0.8	4	
THP3-W	17	10/21/94	nd	nd	nd	nd	nd	nd	nd	
BLK-W	n/a	10/21/94	nd	—	—	nd	nd	nd	nd	

NOTE: TPH-G = Total petroleum hydrocarbons as gasoline.
 TPH-D = Total petroleum hydrocarbons as diesel.
 TPH-O = Total petroleum hydrocarbons as oil.
 nd = Not detected at or above method reporting limit.
 n/a = Not applicable.
 — = Not analyzed.

TW = Tosco well.
 TB = Tosco boring.
 TD = Tosco dispenser soil sample.
 THP = Tosco HydroPunch.
 SGP = Soil gas probe.
 BLK = Tosco HydroPunch equipment blank sample.
 * = Raised method reporting limits (see laboratory report in Attachment D).
 ** = THP1 through THP3 are referred to as HP1 through HP3 on the lab report.

TABLE 1

**LABORATORY RESULTS FOR PETROLEUM HYDROCARBONS AND METALS
CONFIRMATION SOIL SAMPLING
NOVEMBER 1, 1995**

BP SERVICE STATION (TOSCO FACILITY NO. 11128)
4707 FIRST STREET
LIVERMORE, CALIFORNIA

Sample I.D.	Sample Depth	Petroleum Hydrocarbons (mg/kg)					Metals (mg/kg)				
		TPHg	BTEX	TPHd	TPHh	TRPH	Cd	Cr	Pb	Ni	Zn
TS-1	9.0	ND	ND	ND	-	14	ND	43	6	39	44
TN-2	9.0	ND	ND	ND	-	53	ND	37	5	37	41
LN-3	3.0	-	-	-	24	-	-	-	-	-	-
LS-4	3.0	-	-	-	ND	-	-	-	-	-	-
OS-5	4.0	ND	ND	3*	-	46	ND	17	8	25	48

"-" indicates sample not analyzed for specified constituent.

TPHg = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, total xylenes

TPHd = Total petroleum hydrocarbons as diesel

TPHh = Total petroleum hydrocarbons as hydraulic oil

TRPH = Total recoverable petroleum hydrocarbons

Cd = Cadmium

Cr = Chromium

Pb = Lead

Ni = Nickel

Zn = Zinc

* Higher boiling point range than diesel fuel. The chromatogram does not match the typical diesel finger print.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
 ConocoPhillips Site No. 2611128
 4707 First Street, Livermore, California

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other HVOC*	Oxygenates	TPH-GRO	TPH-DRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
		EPA 8260B						EPA 8015B Modified	
B-1	08/21/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	<50	1,100
B-2	08/23/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	<50	4,600
B-3	08/27/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	<50	6,300
B-4	08/22/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	<50	<1,000
Duplicate B-4	08/22/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	<50	<1,000
B-6	08/22/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	<50	7,300

Notes: µg/L - Micrograms per liter (equivalent to parts per billion).
 HVOC - Halogenated volatile organic compounds.
 * - Only compounds detected at a concentration exceeding their respective laboratory method Limit of Quantitation (LOQ) are noted.
 TPH - Total petroleum hydrocarbons.
 TPH-GRO - Gasoline range organic hydrocarbons.
 TPH-DRO - Diesel range organic hydrocarbons.
 EPA - Environmental Protection Agency
 <5 - Analyte not detected above specific laboratory method LOQ.
 ND - Analyte not detected above specific laboratory method LOQ.

TABLE 2
GRAB GROUNDWATER SAMPLES - ANALYTICAL RESULTS
 ConocoPhillips Site #2611128
 4707 First Street
 Livermore, California

SOIL BORING ID	EB-1-GW	EB-3-GW	EB-4-GW	EB-5-GW	EB-6-GW	EB-7-GW
Constituent						
Volatile Organic Analysis - EPA Method 8260						
Benzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl t-butyl ether (MTBE)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	<1	<1	<1	<1	<1
Naphthalene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Purgeable Aromatics and Total Petroleum Hydrocarbons - Luft						
Gasoline Range Organics (C4 - C12)	µg/L	<50	<50	<50	<50	<50
Diesel Range Organics (C12 - C24)	µg/L	<50	19	<50	<50	39

EXPLANATION:
 µg/L ... micrograms per liter
 < ... less than



Table 1 (continued)

Site Number 11128
4707 First Street, Livermore, California

Groundwater Sample Results of Analyses (ppb)

Sample Number	Depth to Water (feet)	Date Sampled	California DHS LUFT Method TPH-G	California DHS LUFT Method Hydrocarbon Scan		BTEX EPA Method 5030/8020			
			TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes
THP1-W	18	10/21/94	nd	nd	770	nd	nd	0.8	4
THP3-W	17	10/21/94	nd	nd	nd	nd	nd	nd	nd
BLK-W	n/a	10/21/94	nd	---	---	nd	nd	nd	nd
Note:	TPH-G = Total petroleum hydrocarbons as gasoline. TPH-D = Total petroleum hydrocarbons as diesel. TPH-O = Total petroleum hydrocarbons as oil. nd = Not detected at or above method reporting limit. n/a = Not applicable. --- = Not analyzed.				TW = Tosco well. TB = Tosco boring. THP = Tosco HydroPunch. BLK = Tosco HydroPunch equipment blank sample * = Raised method reporting limits (see laboratory report in Attachment D). ** = THP1 through THP3 are referred to as HP1 through HP3 on the lab report.				

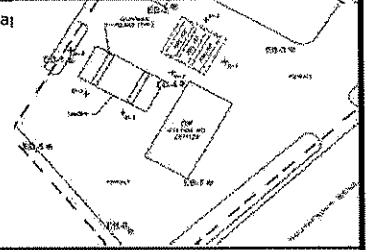
Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/24/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 20'

Boring No: EB-1

Page 1 of 1

Location Map



▽ First Water Depth: 15'

▼ Static Water Depth: 15'

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1			8" Asphalt
					2			
					3			
					4			
			0		5			Air Knife to 5'
					6			Clay (CL): very dark brown (10YR 2/2). 10% Silt. Clay: high plasticity, very hard, damp.
					7			
					8			
			0		10			Clay (CL): very dark grayish brown (2.5Y 3/2). 10% Silt. Clay: low plasticity, hard, damp.
					11			
					12			
					13			Color change to light olive brown (2.5Y 5/3), hard.
					14			
			0		15			Clayey Sand (SC): light olive brown (2.5Y 5/4). 30-40% Clay. Sand: fine, subangular, well sorted, moist.
					16			
					17			
					18			Gradational Change to Gravel
			0		19			Gravel (GP): brown (10YR 4/3). 10-20% Clay. Gravel: fine, well sorted, wet.
					20			TD 20'
					21			
					22			

ATTACHMENT 6

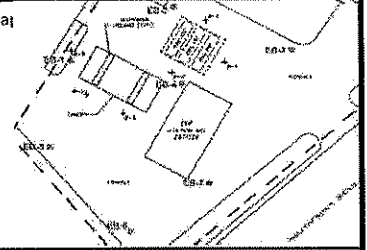
Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/25/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 8.1'

Boring No: EB-2

Page 1 of 1

Location Map



▽ First Water Depth: N/a

▼ Static Water Depth: N/a

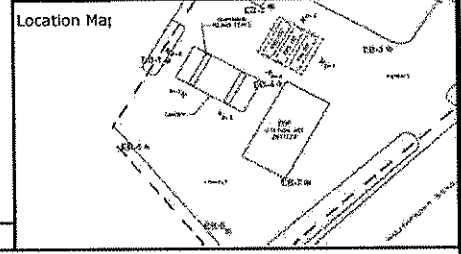
Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
				0		1				7" Asphalt
						2				
						3				
						4				
						5				Air Knife to 5'
						6				Clay (CL): dark grayish brown (10YR 4/2), high plasticity, very stiff, dry.
						7				
						8				Refusal at 8.1 feet encountered concrete (tested pieces with acid)
						9				
						10				
						11				
						12				
						13				
						14				
						15				
						16				
						17				
						18				
						19				
						20				
						21				
						22				

Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/25/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 28'

Boring No: EB-3
 Page 1 of 2



▽ First Water Depth: 26'
 ▼ Static Water Depth: 14.4'

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			6" Asphalt
						2			
						3			
						4			
				0		5			Air Knife to 5'
						6			Clay (CL): dark brown (7.5YR 3/2). 10% Silt. Clay: medium plasticity, hard, damp.
						7			
						8			
						9			
				0		10			Clay (CL): very dark grayish brown (2.5Y 3/2). 10% Silt. Clay: low plasticity, hard, damp.
						11			
						12			Sand with clay (SP): dark yellowish brown (10YR 4/6). 10% Clay. Sand: fine, subangular, well sorted, moist.
						13			
						14			
						15			Clay (CL): light olive brown (2.5Y 5/4). 10% Silt. Clay: low plasticity, hard, damp.
						16			
						17			
						18			
						19			
						20			Clay (CL): light olive brown (2.5Y 5/4). 10% Silt. Clay: high plasticity, medium stiff, moist.
						21			
						22			

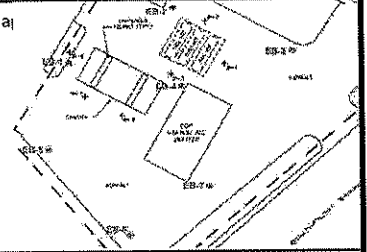
Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/25/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 28'

Boring No: EB-3

Page 2 of 2

Location Map



▽ First Water Depth: 26'
 ▼ Static Water Depth: 14.4'

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
	▽		0		23				Clay / Sand (SC/ CL): light gray (2.5Y 7/2) 40-60% Clay, Sand: fine, subrounded, well sorted, moist.
					24				
					25				
					26				
					27				Clayey Sand (SC): dark yellowish brown (10YR 4/6). 30-40% Clay. Sand: fine, subangular, well sorted, moist.
					28				TD 28'
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

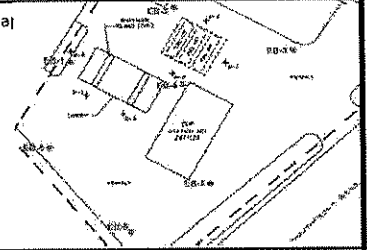
Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/25/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 24'

Boring No: EB-4

Page 1 of 2

Location Map



▽ First Water Depth: 20.5

▼ Static Water Depth: 15.27

Elevation:

Northing:

Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1			9" Asphalt
					2			
					3			
					4			
			0		5			Air Knife to 5'
					6			Silty Clay (CL): very dark grayish brown (10YR 3/2). 20% Silt. Clay: medium plasticity, medium stiff, damp.
					7			
					8			
			0		10			Clay (CL): very dark brown (10YR 2/2). 5% Sand: coarse, subangular, well sorted. 10% Silt. Clay: high plasticity, very hard, damp.
					11			
					12			
					13			
					14			Clayey Sand (SC): dark yellowish brown (10YR 4/6). 30-40% Clay. Sand: fine, subangular, well sorted, moist.
			0		15			Silty Clay (CL): very dark grayish brown (2.5Y 3/2), 30% Silt. Clay: Soft, high plasticity, moist.
					16			
					17			Gradational change to silty clay.
					18			
					19			
			0		20			Silty Clay (CL): very dark grayish brown (2.5Y 3/2), 30% Silt. Clay: Soft, high plasticity, moist.
					21			Gravel (GP): brown (10YR 4/3). 10-20% Clay. Gravel: fine, well sorted, wet.
					22			

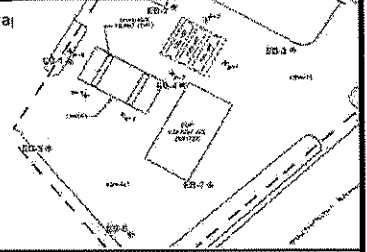
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Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/25/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 24'

Boring No: EB-4

Page 2 of 2

Location Map



▽ First Water Depth: 20.5'

▼ Static Water Depth: 15.27'

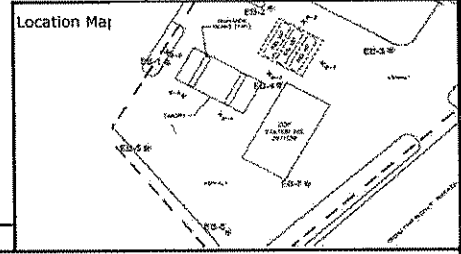
Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						23				Gravel (GP): brown (10YR 4/3). 10-20% Clay.
						24				Gravel: fine, well sorted, wet.
						25				TD 24'
						26				
						27				
						28				
						29				
						30				
						31				
						32				
						33				
						34				
						35				
						36				
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/24/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 24'

Boring No: EB-5
 Page 1 of 2



▽ First Water Depth: 13.9'
 ▼ Static Water Depth: 13.9'

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				9" Asphalt
						2				
						3				
						4				
				0		5				Air Knife to 5'
						6				Clay (CL): very dark grayish brown (10YR 3/2). 10% Silt. Clay: medium plasticity, medium stiff, damp.
						7				
						8				
				0		9				Clayey Sand (SC): dark yellowish brown (10YR 4/6). 30% Clay. Sand: fine, subangular, well sorted, moist.
						10				
						11				Clay (CL): very dark grayish brown (10YR 3/2). 10% Silt. Clay: high plasticity, medium stiff, damp.
						12				
						13				
				0		14				
						15				Clayey Sand (SC): dark yellowish brown (10YR 4/6). 30-40% Clay. Sand: fine, subangular, well sorted, moist.
						16				
						17				Gradational change to silty clay.
						18				Silty Clay (CL): very dark grayish brown (2.5Y 3/2), 30% Silt. Clay: Soft, high plasticity, moist.
						19				
				0		20				
						21				Clay (CL): olive brown (2.5Y 4/3), very stiff, high plasticity, moist.
						22				

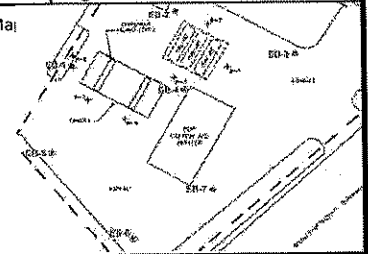
Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/24/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 24'

Boring No: EB-5

Page 2 of 2

Location Map



▽ First Water Depth: 13.9'

▼ Static Water Depth: 13.9'

Elevation:

Northing:

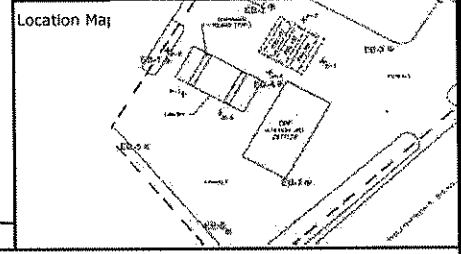
Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
					23				Gravel (GP): brown (10YR 4/3). 10-20% Clay. Gravel: fine, well sorted, wet.
					24				TD 24'
					25				
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
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					42				
					43				
					44				

Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/24/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 20"

Boring No: EB-6
 Page 1 of 1



▽ First Water Depth: 15'
 ▼ Static Water Depth: 15'

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			8" Asphalt
						2			
						3			
						4			
			0			5			Air Knife to 5'
						6			Clay (CL): very dark grayish brown (10YR 3/2). 10% Silt. Clay: medium plasticity, medium stiff, damp.
						7			
						8			
			0			9			
						10			Clay (CL): very dark brown (10YR 2/2). 10% Silt. Clay: high plasticity, very hard, damp.
						11			
						12			
						13			Color change to light olive brown (2.5Y 5/3), hard.
						14			
			0			15			Clayey Sand (SC): dark yellowish brown (10YR 4/6). 30-40% Clay. Sand: fine, subangular, well sorted, moist, roots.
						16			
						17			
						18			
			0			19			Clayey Sand (SC): dark yellowish brown (10YR 4/6). 5-10% Clay. Sand: fine, subrounded, well sorted, wet.
						20			TD 20'
						21			
						22			

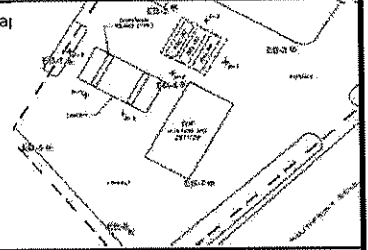
Delta Consultants

Project No: C101128 Client: ConocoPhillips
 Logged By: Jon Fillingame Location: 4707 1st St Livermore
 Driller: RSI Date Drilled: 2/24/2009
 Drilling Method: Geoprobe/Hydropunch Hole Diameter: 2"
 Sampling Method: Continuous Hole Depth: 20'

Boring No: EB-7

Page 1 of 1

Location Map



▽ First Water Depth: 14'

▼ Static Water Depth: 14'

Elevation:

Northing:

Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1			8" Asphalt
					2			
					3			
					4			
			0		5			Air Knife to 5' No Sample recovery due to very hard clay, sample lost in casing.
					6			
					7			
					8			
			0		9			Clayey Sand (SC): dark yellowish brown (10YR 4/6). 30% Clay. Sand: fine, subangular, well sorted, moist.
					10			Clay (CL): very dark grayish brown (2.5Y 3/2). 10% Silt. Clay: low plasticity, hard, damp.
					11			
					12			
					13			Clayey Sand (SC): dark yellowish brown (10YR 4/6). 30-40% Clay. Sand: fine, subangular, well sorted, moist.
			0		14			Gradational change.
					15			Sand (SW): light olive brown (2.5Y 5/4), fine to coarse, poor sorting, subrounded, wet.
					16			
					17			Clayey Sand (SC): strong brown (7.5Y 5/8). 30-40% Clay. Sand: fine, subangular, well sorted, wet.
					18			
			0		19			Sand with clay (SP): light olive brown (2.5Y 5/4). 5-10% Clay. Sand: fine, subrounded, well sorted, wet.
					20			
					21			
					22			

LOG OF BORING B-1

SHEET 1 OF 1

Client ConocoPhillips Company Drill Contractor Cascade Drilling Inc.
 Project Name ConocoPhillips Site No. 2611128 Drill Method Geoprobe
 Number 34.75118.3166 Drilling Started 8/21/07 Ended 8/21/07
 Location 4707 First Street, Livermore, CA Logged By Jonathan Flomerfelt

Elevation (ft amsl) —
 Total Depth 35.0
 Depth To Water ▽ ATD 31.0

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
					ASPHALT.		
5	CT B-1-5	0.0		CL		SANDY CLAY. 80% clay, 20% sand. Fine grained sand. High plasticity. Brown. Moist.	5
10	CT B-1-10	0.0		CL ML		SILTY CLAY. Hard. Dry.	10
15	CT B-1-15	0.0				15% sand and gravel. Coarse grained.	15
20	CT B-1-20	0.0		CH		CLAY. High plasticity. Slightly damp.	20
25	CT B-1-25	0.0		SC		CLAYEY SAND. 70% sand, 30% clay. Fine to medium grained. Slightly damp.	25
30	CT B-1-30	0.0		CL		SANDY CLAY. Fine to medium grained sand. Slightly damp.	30
35	CT B-1-35	0.0		SC		CLAYEY SAND. Medium grained. Low plasticity. Damp.	35
						Bottom of hole at 35 feet	

LOG A EWIN05 2611128 BORING LOGS.GPJ LOG A EWIN05.GDT 9/27/07



9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Groundwater encountered at approximately 31' bgs.

See key sheet for symbols and abbreviations used above.

LOG OF BORING B-2

SHEET 1 OF 1

Client ConocoPhillips Company Drill Contractor Cascade Drilling Inc.
 Project Name ConocoPhillips Site No. 2611128 Drill Method Geoprobe
 Number 34.75118.3166 Drilling Started 8/23/07 Ended 8/23/07
 Location 4707 First Street, Livermore, CA Logged By Jonathan Flomerfelt

Elevation (ft amsl) --
 Total Depth 35.0
 Depth To Water ▽ ATD 32.0

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
					ASPHALT.		
5	CT B-2-5		0.0	CL		SANDY CLAY. 75% clay, 25% sand. Fine to medium grained sand. Moderate plasticity. Brown. Moist.	5
10	CT B-2-10		0.0	ML		SANDY SILT.	10
15	CT B-2-15		0.0	CL ML		CLAYEY SILT. Hard. Dry.	15
20	CT B-2-20		0.0	CH		SILTY CLAY WITH SAND. Hard. Dry.	20
25	CT B-2-25		0.0	CH		CLAY WITH SOME SILT. High plasticity. Low density.	25
30	CT B-2-30		0.0	CL ML		SILTY CLAY WITH SAND. High plasticity. Low density.	30
35	CT B-2-35		0.0	CL		Slightly damp. Expansive.	30
				CL		CLAY. Hard. Damp to wet. Expansive.	35
						Bottom of hole at 35 feet	

LOG A EWINN05 2611128 BORING LOGS.GPJ LOG A EWINN05.GOT 9/27/07



9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Groundwater encountered at approximately 32' bgs.

See key sheet for symbols and abbreviations used above.

LOG OF BORING B-3

SHEET 1 OF 1

Client ConocoPhillips Company

Drill Contractor Cascade Drilling Inc.

Project Name ConocoPhillips Site No. 2611128

Drill Method Geoprobe

Elevation (ft amsl) --


Number 34.75118.3166







Drilling Started 8/27/07 Ended 8/27/07

Total Depth 25.0

Location 4707 First Street, Livermore, CA

Logged By Jonathan Flomerfelt

Depth To Water  ATD 20.0

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
						ASPHALT.	
						SANDY CLAY. 70% clay, 20% sand, 10% gravel. Fine grained sand. Moderate plasticity. Brown.	
5	CT B-3-5		0.0	CL			5
						CLAY. High plasticity. Dry.	
10	CT B-3-10		0.0	CH			10
						SANDY CLAY WITH SILT. Low plasticity. Dry.	
15	CT B-3-15		0.0	CL			15
						GRAVELLY SAND. 80% sand, 20% gravel. Medium to coarse grained sand.	
20	CT B-3-20		0.0	SP		Wet.	 20
25	CT B-3-25		0.0			Bottom of hole at 25 feet	25

LOG A EWINN05 2611128 BORING LOGS.GPJ LOG A EWINN05.GDT 8/27/07



9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Groundwater encountered at approximately 20' bgs.

See key sheet for symbols and abbreviations used above.

LOG OF BORING B-4

SHEET 1 OF 1

Client ConocoPhillips Company

Drill Contractor Cascade Drilling Inc.

Project Name ConocoPhillips Site No. 2611128

Drill Method Geoprobe

Elevation (ft amsl) --

Number 34.75118.3166

Drilling Started 8/22/07 Ended 8/22/07

Total Depth 25.0

Location 4707 First Street, Livermore, CA

Logged By Jonathan Flomerfelt

Depth To Water ∇ ATD 21.0

DEPTH (feet)	SAMPLE NO.	BLOWS/6" BLOW	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
					ASPHALT.		
				CL		SANDY CLAY WITH GRAVEL. 55% clay, 30% sand, 15% gravel. Well graded sand and gravel. Low plasticity. Brown. Damp.	
				CL		SANDY CLAY. 70% clay, 30% sand. Fine grained sand. Moderate plasticity. Brown. Damp.	
5	CT B-4-5		0.0			SILTY CLAY. Moist.	5
				CL ML		Moderate plasticity. Dry.	
10	CT B-4-10		0.0				10
				ML		SANDY SILT WITH CLAY. Low plasticity. Dry.	
15	CT B-4-15		0.0				15
				CL		SANDY CLAY WITH GRAVEL. Moderate plasticity. Moist.	
20	CT B-4-20		0.0				20
				SP		SANDY GRAVEL. Fine to coarse grained sand. Wet.	
25	CT B-4-25		0.0			Bottom of hole at 25 feet	25

LOG A EWINN05 2611128 BORING LOGS.GPJ LOG A EWINN05.GDT 9/27/07



9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Groundwater encountered at approximately 21' bgs.

See key sheet for symbols and abbreviations used above.

LOG OF BORING B-5

SHEET 1 OF 1

Client ConocoPhillips Company

Drill Contractor Cascade Drilling Inc.

Project Name ConocoPhillips Site No. 2611128

Drill Method Geoprobe

Elevation (ft amsl) —

Number 34.75118.3166

Drilling Started 8/22/07 Ended 8/22/07

Total Depth 9.0

Location 4707 First Street, Livemore, CA

Logged By Jonathan Flomerfelt

Depth To Water

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
				ASPHALT.		
2			CL	SANDY CLAY WITH GRAVEL. 55% clay, 25% sand, 20% gravel. Well graded sand and gravel. Moderate plasticity. Dry.		2
4				SANDY CLAY. 80% clay, 20% sand. Fine grained sand. Moderate plasticity. Damp.		4
6			CL			6
8				Refusal.		8
10					Bottom of hole at 9 feet	10
12						12

LOG A EWIN05 2611128 BORING LOGS.GPJ LOG A EWIN05.GDT 9/27/07



9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Refusal at 9'. No groundwater encountered.

See key sheet for symbols and abbreviations used above.

LOG OF BORING B-6

SHEET 1 OF 1

Client ConocoPhillips Company

Drill Contractor Cascade Drilling Inc.

Project Name ConocoPhillips Site No. 2611128

Drill Method Geoprobe

Elevation (ft amsl) ---

Number 34.75118.3166

Drilling Started 8/22/07 Ended 8/22/07

Total Depth 25.0

Location 4707 First Street, Livermore, CA

Logged By Jonathan Flomerfelt

Depth To Water ▽ ATD 21.0

DEPTH (feet)	SAMPLE NO.	BLOWS/ft	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
					ASPHALT.		
5	CT B-6-5		0.0	CL	SANDY CLAY WITH GRAVEL.	65% clay, 20% sand, 15% gravel. Well graded sand and gravel. Moderate plasticity. Brown. Dry.	5
				ML	SILT.		
10	CT B-6-10		0.0	CL ML	SILTY CLAY WITH TRACE SAND.	Medium to high plasticity.	10
				CH	CLAY.	High plasticity. Dry.	
15	CT B-6-15		0.0	CL	SANDY CLAY WITH GRAVEL.		15
				SP	GRAVELLY SAND WITH CLAY.	Dry. Subangular gravel.	
20	CT B-6-20		0.0			20-25% gravel, 15% fine sand, 60-65% coarse sand. Poorly graded. Wet.	20
				CL ML	SILTY CLAY.	High plasticity. Damp.	
25	CT B-6-25		0.0			Bottom of hole at 25 feet	25

LOG A EWING05 2611128 BORING LOGS.GPJ LOG A EWING05.GDT 9/27/07



9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Groundwater encountered at approximately 21' bgs.

See key sheet for symbols and abbreviations used above.